CLASSIFICATIONOF SUBJECT MATTER

G11B 5/66, 5/85 Int.Cl7

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl7 G11B 5/66, 5/85

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Ga: Containing the Utility Model 1996-2004 Japanese Gazette

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT .

Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to clai					
Y1	JP 2003-123245 A (SHOWA DENKO K.K.) 25 Apr 2003(25.04.03) claim 1,6,9, paragraph 15, whole document & US 2003-170500 A1	1-16				
Y1	JP 2003-36525 A (FUJI DENKI K.K.) 7 Feb 2003(07.02.03) claim 1,4,5,7, paragraph 23,31, whole document (no families)	1-16				
¥2	JP 2001-291230 A (SONY K.K.) 19 Oct 2001(19.10.01), claim 1,9,10, whole document & US 2001-36564 A1	1-16				
EX	JP 2004-220737 A (FUJI DENKI DEVICE TECHNOLOGY K.K.), 5 Aug 2004(05.08.04), claim 1,3, whole document (no families)	1-16				
Further documents are listed in the continuation of Box C. See patent family annex.						

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* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
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"L"	" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		inventive step when the document is taken alone				
	special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is					
"O"	means	combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family					
Date of the actual completion of the international search		Date of mailing of the international search report					
23.08.2004		07. 9. 2004					
Name and mailing address of the ISA/JP		Authorized officer 5D 8721					
Japan Patent Office		Kurano Masaaki					
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3551					